

UMANSKIY, A. A.

A Course in Aircraft Structural Mechanics. 1949. (Kurs stroitel'noy mekhaniki samoleta.)  
Tome II.

UMANSKIY, A. A. ed.

Raschet prostranstvennykh konstruktsii. Sbornik statei. Moskva, Izd-vo Ministerstva stroitel'stva predpriatii mashinostroeniia, 1950+ DLC  
has v. 1, 342 p. diagrs.

Includes bibliographies.

Computation of three-dimensional systems; collected articles.

DLC: TG265.U45

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

UMANSKII, A. A.

Author: Umanskii, A. A.

Title: The determination of spatial constructions. Complete works.  
(Raschet prostranstvennykh konstruksii; sbornik statei.)

City: Moscow

Publisher: Ministry for the Manufacture of Machinery

Date: 1950

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 4, No. 1, p. 28.

UMANSKIY, A.A.

BABAYEV, S.I., kandidat tekhnicheskikh nauk; BAKHAROV, B.A., professor, doktor tekhnicheskikh nauk; BEYAEV, B.A., inzhener; BELYAYEV, V.M., kandidat tekhnicheskikh nauk; BIGZEV, I.A., kandidat tekhnicheskikh nauk; BOGUSLAVSKIY, P.Ye., kandidat tekhnicheskikh nauk; BOROVICH, L.S., kandidat tekhnicheskikh nauk; VOL'KOV, A.S., professor, doktor tekhnicheskikh nauk; GONIKBERG, Yu.M., inzhener; GORODETSKIY, I.Ye., professor, doktor tekhnicheskikh nauk; GORDON, V.O., professor; DIMENBERG, P.M., kandidat tekhnicheskikh nauk; DOSCHATOY, V.V., inzhener; IVANOV, A.G., kandidat tekhnicheskikh nauk; KIMASOSHIY, R.S., professor; KODIN, D.S., kandidat tekhnicheskikh nauk; KOLOMIYTSYEV, A.A., kandidat tekhnicheskikh nauk; KRUTIKOV, I.P., kandidat tekhnicheskikh nauk; KUSHUL', M.Ya., kandidat tekhnicheskikh nauk; LEVENSON, Ye.M., inzhener; MAZYRIN, I.V., inzhener; MALININ, N.N., kandidat tekhnicheskikh nauk; MARTYNOV, A.D., kandidat tekhnicheskikh nauk; NIBERG, N.Ya., kandidat tekhnicheskikh nauk; NIKOLAYEV, G.A., professor, doktor tekhnicheskikh nauk; PETRUSEVICH, A.I., doktor tekhnicheskikh nauk; POZDNYAEV, S.N., dotsent; POMANOREV, S.D., professor, doktor tekhnicheskikh nauk; PRIGOROVSKIY, N.I., professor, doktor tekhnicheskikh nauk; PRONIN, B.A., kandidat tekhnicheskikh nauk; RESHETOV, D.E., professor, doktor tekhnicheskikh nauk; SATEL', E.A., professor, doktor tekhnicheskikh nauk; SERENSEN, S.V.; SLOBODKIN, M.S., inzhener; SPITSYN, N.A., professor, doktor tekhnicheskikh nauk; STOLBIN, G.B., kandidat tekhnicheskikh nauk; TAYTS, B.A., kandidat tekhnicheskikh nauk; TETEL'BAUM, I.M., kandidat tekhnicheskikh nauk; UMANSKIY, A.A., professor, doktor tekhnicheskikh nauk; FEODOS'YEV, V.I., professor, doktor tekhnicheskikh nauk;

(Continued on next card)

BABKIN, S.I.--- (continued) Card 2.

KHAYT, D.M., kandidat tekhnicheskikh nauk; LYBINOV, V.Ye., kandidat tekhnicheskikh nauk; SHRAYBER, M.N., inzhener, nauchnyy redaktor; SHEDROV, V.S., kandidat tekhnicheskikh nauk, nauchnyy redaktor; TSVETKOV, A.P., docent, nauchnyy redaktor; SLEPNIKOV, G.I., inzhener, nauchnyy redaktor; MARKUS, M.Ye., inzhener, nauchnyy redaktor; KARGANOV, V.G., inzhener, nauchnyy redaktor; SCHERKAB, N.S., doktor tekhnicheskikh nauk, professor, redaktor; SERGLOVA, T.F., tekhnicheskiiy redaktor

[Manual of machinery manufacture] Spravochnik mashinostroitel'no; v trekh tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.3. 1951 1992 p. (MIRA 10:2)

1. Deystvitel'nyy chlen Akademii nauk USSR (for Serenaea)  
(Machinery)

UMANSKIY, A.A.; AFANAS'YEV, A.M.; VOL'MIR, A.S.; GRIGOR'YEV, Yu.P.;  
KODANEV, A.I.; MAR'IN, V.A.; PRIGOROVSKIY, N.I.; SNITKO, I.K.,  
redaktor; AKHLAMOV, S.N., tekhnicheskij redaktor.

[Collection of problems on the strength of materials] Sbornik  
zadach po soprotivleniiu materialov. Moskva, Gos. izd-vo tekhn.-  
teoret. lit-ry, 1954. 480 p. (MLRA 7:12)  
(Strength of materials)

UMANSKIY, A. A.

Remarks on the Kinematic Method of Calculating Plane Girders

The author presents a method of constructing displacement diagrams which is a generalization of the well-known method of descriptive points. He illustrates the method by a number of examples. He describes the graphoanalytic and purely graphical construction of the lines of stress influence in the rods of girders. (RZhMekh, No. 6, 1955) Issled. po Teorii Sooruzheniy, 1954, 399-412.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

UMANSKIY, A.A.

ANDREYEV, L.Ye., kandidat tekhnicheskikh nauk; BIDERMAN, V.L., kandidat tekhnicheskikh nauk; BOYARSHINOV, S.V., kandidat tekhnicheskikh nauk; VOL'MIR, A.S., doktor tekhnicheskikh nauk; DIMENBERG, F.M., kandidat tekhnicheskikh nauk; ZASLATELEV, S.M., inzhener; KINASOSHVILI, R.S., doktor tekhnicheskikh nauk, professor; KOVALENKO, A.D.; MAKUSHIN, V.M., kandidat tekhnicheskikh nauk; PONOMAREV, S.D., MALININ, N.N., kandidat tekhnicheskikh nauk; PRIGOROVSKIY, N.I., doktor tekhnicheskikh nauk; TETEL'BAUM, I.M., kandidat tekhnicheskikh nauk; UMANSKIY, A.A., doktor tekhnicheskikh nauk, professor; FEODOS'YEV, V.I., doktor tekhnicheskikh nauk; SERENSEN, S.V., redaktor; TRAPEZIN, I.I., kandidat tekhnicheskikh nauk, redaktor; KARGANOV, V.G., inzhener, redaktor; SOKOLOVA, T.F., tekhnicheskii redaktor.

[Mechanical engineer's manual; in 6 volumes] Spravochnik mashinostroitel'ia; v shesti tomakh. Izd.2-e, ispr. i'dop. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, Vol.3, 1955. 563 p. (MLRA 8:12)  
(Mechanical engineering)



124-57-1-1144

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 158 (USSR)

AUTHORS: Umanskiy, A.A., Kutukov, B.N.

TITLE: The Calculation of Continuous Pontoon Bridges (Raschet nerazreznykh naplavnykh mostov)

PERIODICAL: V sb.: Raschet prostranstvennykh konstruktsiy. Nr. 3.  
Moscow, Gos. izd-vo lit. po str-vu i arkhitekture, 1955,  
pp 85-135

ABSTRACT: The calculation of a continuous pontoon bridge is examined as that of a beam lying on elastically yielding supports. At the outset an infinitely extended beam is examined; subsequently, the boundary conditions of a finite system are satisfied through the introduction of supplemental loads. Influence lines are constructed for the support moments and the bending moments in various sections. Also examined is the flexural torsion of a pontoon bridge under the assumption of absolutely rigid, as well as elastic, transverse members.

1. Pontoon bridges--Design
2. Pontoon bridges--Mathematical analysis  
Ye.Kh.Agababyan, S.N.Nikiforov

Card 1/1

UMANSKIY, A.A., doktor tekhn. nauk, prof., red.; KOTIK, B.A., red. izd-va,;  
~~PERSON, M.N., tekhn. red.;~~ EL'KINA, E.M., tekhn. red.

[Calculation of spatial structures; collection of articles]  
Raschet prostranstvennykh konstruksii; sbornik statei. Moskva,  
Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam.  
Pt. 4. 1958. 554 p. (MIRA 11:11)

(Structural frames)  
(Elastic plates and shells)

UMANSKIY, A.A., prof., doktor tekhn.nauk, red.; MAR'IN, V.A., dotsent,  
kand.tekhn.nauk, nauchnyy red.; BUDARINA, E.M., red.; GILENSON,  
P.G., tekhn.red.

[Design of three-dimensional structures; collected articles]  
Raschet prostranstvennykh konstruksii; sbornik statei. Moskva,  
Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam.  
No.5. 1959. 555 p. (MIRA 13:1)  
(Structures, Theory of)

UMANSKIY, A.A. (Moskva)

Reducing areas in determining moments of inertia. Stroi. mekh. i  
rasch. soor. no.1:40-41 '59. (MIRA 12:7)  
(Moments of inertia)

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics,  
Moscow, 27 Jan - 3 Feb '60.

264. L. A. Kuznetsov (Mukhomorov): Strain design and general stability of structures.
265. L. A. Kuznetsov (Mukhomorov): A general method of solving non-linear problems of structural mechanics.
270. R. D. Kuznetsov (Mukhomorov): A contribution to the non-linear problem of plate flutter.
271. L. O. Kuznetsov, R. P. Kuznetsov (Mukhomorov): On the use of variational principles for the approximate solution of some problems of plastic equilibrium.
272. A. I. Kuznetsov (Mukhomorov): Experimental investigation of the influence of the shape of the plastic flow on the plastic flow of steel.
273. A. I. Kuznetsov (Mukhomorov): Strength and viscoplastic flow of steel.
274. G. I. Kuznetsov (Mukhomorov): The relation between pure pressure and rate of creep of alloys.
275. L. A. Kuznetsov (Mukhomorov): Finite plastic strains of non-linearly elastic bodies.
276. A. I. Kuznetsov (Mukhomorov): Flaring of metals by a spherical punch considering contact friction.
277. Z. A. Kuznetsov (Mukhomorov): An approximate method of solving the problem of the flow of a plastic material at high speeds.
278. A. I. Kuznetsov (Mukhomorov): Application of similarity methods to the problem of the flow of a plastic material.
279. A. I. Kuznetsov (Mukhomorov): Dependence of the plastic flow on the rate of strain.
280. A. I. Kuznetsov (Mukhomorov): An approximate method for the solution of the problem of the flow of a plastic material.
281. Z. A. Kuznetsov (Mukhomorov): Some problems of soil dynamics.
282. A. I. Kuznetsov (Mukhomorov): The flow in the boundary layer of an elastic body.
283. A. I. Kuznetsov (Mukhomorov): Free problems concerning the stability of structures in a fluid.
284. A. I. Kuznetsov (Mukhomorov): On strength and stress criteria for plastic materials.
285. A. I. Kuznetsov (Mukhomorov): Some problems of non-linear viscoplasticity.
286. A. I. Kuznetsov (Mukhomorov): Analysis and solution of problems of the stability of structures.
287. A. I. Kuznetsov (Mukhomorov): The problem of seismic strength of structures.
288. A. I. Kuznetsov (Mukhomorov): Application of integral equations to the solution of some problems concerning the stability of structures.
289. A. I. Kuznetsov (Mukhomorov): Determination of plastic flows in structures.
290. A. I. Kuznetsov (Mukhomorov): Elastic-plastic equilibrium of an elastic body.
291. A. I. Kuznetsov (Mukhomorov): Stability and vibrations of structures with variable thickness.
292. A. I. Kuznetsov (Mukhomorov): Extensional vibrations of turbine discs.
293. A. I. Kuznetsov (Mukhomorov): On the possibility of using the method of the finite element in the solution of problems of the stability of structures.
294. A. I. Kuznetsov (Mukhomorov): Some problems concerning the stability of structures with stiffeners.
295. A. I. Kuznetsov (Mukhomorov): On the impact of a wave on a heavy plate.
296. A. I. Kuznetsov (Mukhomorov): Some problems concerning the stability of structures.
297. A. I. Kuznetsov (Mukhomorov): Present state and problems of the theory of plasticity.
298. A. I. Kuznetsov (Mukhomorov): Flow conditions for turbulent flow.
299. A. I. Kuznetsov (Mukhomorov): Experimental study of real and apparent friction in vibrating bodies.
300. A. I. Kuznetsov (Mukhomorov): On the construction of the theory of the stability of structures.
301. A. I. Kuznetsov (Mukhomorov): Further development of the initial value problem.
302. A. I. Kuznetsov (Mukhomorov): Superposition of stresses in structures and their effect on stability.

PHASE I BOOK EXPLOITATION SOV/5891

38  
Umanskiy, Aleksandr Azar'yevich

Stroitel'naya mekhanika samoleta (Structural Analysis of Aircraft) Moscow, Oborongiz, 1961. 528 p. Errata slip inserted. 10,000 copies printed.

Reviewer: G. G. Rostovtsev, Doctor of Technical Sciences, Professor; Ed.: B. V. Zaslavskiy, Candidate of Technical Sciences, Docent; Ed. of Publishing House: A. G. Belevtseva; Tech. Ed.: V. P. Rozhin; Managing Ed.: S. D. Krasil'nikov, Engineer.

PURPOSE: This textbook is intended for students of aeronautical schools of higher education. It can also be used by engineers and aircraft designers.

COVERAGE: The book deals with the following problems: combined flexure of beams; strength and stability of thin plates and shells; design for strength and the calculation of the carrying

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Structural Analysis of Aircraft

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capacity of wing-type and fuselage-type structures; analysis of two- and three-dimensional trusses; and a number of supplementary problems with the necessary mathematical means for their solution. The book purportedly reflects the present level of theoretical knowledge in the field of structural analysis of aircraft. The author thanks the following people for their assistance: Yu. P. Grigor'yev, Candidate of Technical Sciences, who wrote Ch. III and parts 8 through 10 of Ch. VI; A. S. Vol'mir, Doctor of Technical Sciences, who furnished experimental data for part 5 of Ch. IV; and A. M. Afanas'yev, Candidate of Technical Sciences, Docent; A. I. Makarov, Candidate of Technical Sciences, Docent; V. A. Martin, Candidate of Technical Sciences, Docent; V. V. Novitskiy, Candidate of Technical Sciences, Docent; and A. I. Tyulenev, Candidate of Technical Sciences, Docent; who participated in the preparation of some exercises and examples. There are 152 references: 139 Soviet, 7 German, 5 English, and 1 Polish.

Card 2/5

VAN Guan-jhao [Wang Kuang-ch'ao], inzh.; UMANSKIY, A.A., inzh.

Electric simulation of the vibrating processes of suspension. Trakt.  
i sel'khoz mash. 31 no. 3: 11-14 Mr '61. (MIRA 14:3)

1. Moskovskoye vyssheye tekhnicheskoye uchilische im. Baumana.  
(Vibration-Electromechanical analogies)



SAVIN, G.N., otv.red.; ADADUROV, R.A., red.; ALUNYAE, N.A., red.;  
AMBARTSUMYAN, S.A., red.; AMIRO, I.Ya., red.; BOLOTIN, V.V., red.;  
VOL'MIR, A.S., red.; GOL'DENVEYZER, A.L., red.; GRIGOLYUK, E.I.,  
red.; KAN, S.N., red.; KARMISHIN, A.V., red.; KIL'CHEVSKIY, N.A.,  
red.; KISELEV, V.A., red.; KOVALENKO, A.D., red.; MUSHTARI, Kh.M.,  
red.; NOVOZHILOV, V.V., red.; UMANSKIY, A.A., red.; FILIPPOV, A.P.,  
red.; LISOVETS, A.M., tekhn. red.

[Proceedings of the Second All-Union Conference on the Theory of  
Plates and Shells] Trudy Vsesoiuznoi konferentsii po teorii plastin i  
obolochek. 2d, Lvov, 1961. Kiev, Izd-vo Akad.nauk USSR, 1962. 581 p.  
(MIRA 15:12)

1. Vsesoyuznaya konferentsiya po teorii plastin i obolochek. 2,  
Lvov, 1961.

(Elastic plates and shells)

AGAMIROV, V.L., kand. tekhn. nauk; AMEL'YANCHIK, A.V., inzh.;  
 ANDREYEVA, L.Ye., kand. tekhn. nauk; BIDERMAN, V.L., doktor  
 tekhn. nauk; BOYARSHINOV, S.V., kand. tekhn. nauk; VOL'MIR,  
 A.S., prof., doktor tekhn. nauk; DIMENTBERG, F.M., doktor  
 tekhn. nauk; KOSTYUK, A.G., kand. tekhn. nauk; MAKUSHIN, V.M.,  
 kand. tekhn. nauk; MASLOV, G.S., kand. tekhn. nauk; MALININ,  
 N.N., prof., doktor tekhn. nauk; PONOMAREV, S.D., prof. doktor  
 tekhn. nauk; PRIGOROVSKIY, N.I., prof., doktor tekhn. nauk;  
 SERENSEN, S.V., akademik; STEPANOVA, V.S., inzh.; STRELYAYEV,  
 V.S., inzh.; TRAPEZIN, I.I., prof., doktor tekhn. nauk;  
 UMANSKIY, A.A., prof., doktor tekhn. nauk; FEODOS'YEV, V.I.,  
 prof., doktor tekhn. nauk; SHATALOV, K.T., doktor tekhn. nauk;  
 YUMATOV, V.P., kand. tekhn. nauk; BLAGOSKLONOVA, N.Yu., red.  
 izd-va; YEVSTRAT'YEV, A.I., red. izd-va; SOKOLOVA, T.F.,  
 tekhn. red.

[Manual for a mechanical engineer in six volumes] Spravochnik  
 mashinistroitelia v shesti tomakh. Red. sovet N.S.Acherkan i  
 dr. Izd.3., ispr. i dop. Moskva, Mashgiz. Vol.3. 1962. 651 p.  
 (MIRA 15:4)

1. Akademiya nauk USSR (for Serensen).  
 (Machinery—Design)

UMANSKIY, Aleksey Aleksandrovich; MEL'NIKOVA, Zh.M., red.;  
NAZAROVA, A.S., tekhn. red.

[Food is prepared by automatic machines] Pishchu gotoviat  
avtomaty. Moskva, Izd-vo "Znanie," 1963. 31 p.  
(MIRA 16:12)

(Cookery) (Machinery, Automatic)

UMANSKIY, A.A.; AFANAS'YEV, A.M.; VOL'MIR, A.S.; GRIGOR'YEV Vn.P.;  
KODANEV, A.I.; MAR'IN, V.A.; NOVITSKIY, V.V.; TIKHOMIROV,  
Ye.N., retsenzent; SHITKO, I.K., red.

[Collection of problems on the strength of materials]  
Sbornik zadach po soprotivleniiu materialov. 1zd.2.,  
perer. i dop. Moskva, Nauka, 1964. 550 p. (MIRA 18:1)

DUSHIN, B.M. [Dushyn. B.M.]; GERSHENGORN, M.S. [Hershenhorn, M.S.];  
DERHAREMDIKER, M.L.; UMANSKIY, A.A. [Umans'kyi, A.A.]; SHOR, M.R.

Drying and processing of leather for shoe uppers. Lab.prom.  
no.1:45-48 Ja-Mr '64. (MIRA 1961)

AUTHOR: Umanekiy, A. A.

TITLE: Automatic vibrator. Class 42, No. 169842

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 120

SUBMITTED: 09Jan65

OTHER: 000

NO REF SOV: 000

Card

UMANSKIY, A. A.

Umanskiy, A. A. - "Probing in the small intestine", Vracheb. delo 1949, No. 5, paragraphs 413-16.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal Nykh Statey, No. 23, 1949).

UMANSKIY, A.A.

32716. Aktual'naya (aktiuvaya) reaktsiya soderzhimogo tonkogo kislechnika  
chysloveka pri osnovnykh pishchevykh razdrashhitelyakh. Novosti meditsiny, vyp. 14,  
1949, s. 37-48

SO: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949



UMANSKIY, A.A.

Active reaction of stomach and small intestine content in man during fast and digestion. Fiziol.zh.SSSR 37 no.3:312-321 May-June 51. (CLML 21:1)

1. Department of Functional Diagnosis, Ukrainian Institute of Clinical Medicine, Kiev.

UMANSKIY, A.A., kandidat meditsinskikh nauk; OPARA, V.M., glavnyy vrach.

Hemolyzed blood therapy of bronchial asthma. Sov.med. 17 no.5:27-29 My  
'53. (MLBA 6:6)

1. Korovogradskaya oblastnaya bol'nitsa. (Asthma) (Blood as food or  
Medicine)

UMANSKIY, A.A., kandidat meditsinskikh nauk (Kirovograd).

Pathogenesis and diagnosis of chronic enteritis. Klin.med. 31:60-69 0 '53.  
(MLBA 6:11)

1. Iz Kirovogradskey oblastnoy bol'nitsy. (Intestines--Diseases)

UMANSKIY, A.A., kandidat meditsinskikh nauk (Kirovograd)

The role of the duodenum in the regulation of acidity of gastric contents. Klin.med. 34 no.11:30-39 N '56. (MLBA 10:2)

1. Iz Kirovogradskoy oblastnoy bol'nitsy (glavnyy vrach G.D.Nazarov)  
(DUODENUM, physiol.  
regulation of acid level in stomach)  
(STOMACH, physiol.  
regulation of acidity by reflexes initiated in duodenum)

UMANSKIY, A.A., kand.med.nauk, MYAKISHEVA, N.N.

Metastasis of lung cancer to the skin. Sov.med. 22 no.9:132  
8'58 (MIRA 11:11)

1. Iz Kirovogradskoy oblastnoy bol'nitsy (glavnyy vrach G.D. Nazarov).  
(LUNG NEOPLASMS, case reports  
metastasis to skin (Rus))  
(SKIN NEOPLASMS, case reports  
metastatic from lungs (Rus))

UMANSKIY, A.A., Kand.med.nauk; SHENDRIK, T.S.

Hypertension in adolescence. Terap. arkh. 29 no.5:79-88 My '58.  
(MIRA 11:4)

1. Iz Kirovogradskoy oblastnoy bol'nitsy.  
(HYPERTENSION, epidemiology,  
in adolescents (Rus)

UMANSKIY, A.A.

Depressor effect from the small intestine on the acidity of the  
gastric contents. Klin. med. 38 no. 4:80-87 Ap '60. (MIRA 14:1)

(GASTRIC JUICE) (INTESTINES--INNERVATION)

LITVINOV, M.R.; UMANSKIY, A.A.

Efficient method of manufacturing lining split leather from raw hide split. Kozh.-obuv.prom. 4 no.9:40 S '62. (MIRA 15:9)

1. Glavnyy inzhener Kiyevskogo kozhevennogo kombinata (for Litvinov).
2. Nachal'nik tekhnicheskogo otdela Kiyevskogo kozhevennogo kombinata (for Umanskiy).  
(Leather)



GRAD, N.Ye.; DUSHIN, B.M.; MERZON, A.G.; SHNITNIKOV, S.Ya.; KOVTUNOVICH, S.D.;  
UMANSKIY, A.A.

Efficient utilization of crumpled hides in the manufacture of chrome  
leather. Kozh.-obuv.prom. 6 no.1:20-22 Ja '64. (MIRA 17:4)

U MAN SKIY A.A.  
LITVINOV, M.A., glavnyy inzhener; UMANSKIY, A.A., inzhener.

Dyeing chrome leather at lower temperature. Leg.prom. 14 no.10:  
37 0 '54. (MLRA 7:11)  
(Dyes and dyeing--Leather)

UMANSKI, A. A.

Perfection of the Drum Dyeing Method for Chromium Tanned Leather.  
Leka Promishlenost (Light Industry), #7-12:23:July-Dec 1955

*UMANSKIY, A.A.*  
LITVINOV, M.P., glavnyy inzhener; UMANSKIY, A.A.

Improving the method of chrome leather drum dyeing. Leg.prom.  
15 no.7:50-51 J1'55. (MIRA 8:10)

1. Kiyevskiy koshkombinat (for Litvinov)  
(Dyes and dyeing--Leather)

UMANSKIY, A.A.

Isaak Meisevich Rabinovich; on his 70th birthday. Izv. AN SSSR Otd.  
nauk no.2:148-150 F '56. (MLRA 9:7)  
(Rabinovich, Isaak Meisevich, 1886-)

UMANSKIY, A.A., inzhener; DERBAREMDIKER, M.L., kandidat tekhnicheskikh nauk.

Stretching of skins on frames and its effective control.  
Leg. prom. 16 no.7:43 J1 '56.

(MLRA 9:10)

(Hides and skins)

UMANSKIY A A

LITVINOV, M.R.; DERBAHEMIDIKER, M.L.; ~~UMANSKIY~~

Better use of raw calfskins in manufacturing chrome leather.  
Leg.prom.16 no.12:44-45 D '56. (MLRA 10:2)  
(Leather industry)

UMANSKIY, A.A.; RYBCHINSKIY, O.I.; DERBAREMDIKER, M.L.

Production of white kidskin. Leg.prom. 17 no.4:50 Ap '57.  
(MLRA 10:4)

(Hides and skins)



UMANSKIY, A.A.

LI'VINOV, M.R.; UMANSKIY, A.A.; RYBCHINSKIY, O.I.; DEEBAREMDIKER, M.L.

Using Nokol for chemical cleaning of unhaired hide faces for chrome  
tanning. Leg. prom. 18 no.1:48-49 Ja '58. (MIRA 11:2)  
(Tanning)

DERBAREMDIKER, M.L., kand.tekhn.nauk; LITVINOV, M.R., inzh.; UMANSKIY, A.A.,  
inzh.

New criterion for the completion of chrome tanning. Leg. prom. 18  
no.9:55-56 S '58. (MIRA 11:10)

(Tanning)

UMANSKIY, A.A., insh.

Combining tanning and dyeing operations in the manufacture of  
lining leather. Kozh.-obuv.prom. 2 no.10:37-38 0 '60.

(MIRA 13:11)

(Tanning) (Dyes and dyeing--Leather)

LITVINOV, M.R., inzh.; UMANSKIY, A.A., inzh.

Revise the state standards for leather raw materials. Kozh.-obuv.  
prom. no.9:17-18 S '61. (MIRA 14:11)  
(Leather--Standards)

UMANSKIY, A.A., inzh.

Method for determining the oiliness of the face side of leather.  
Kozh.-obuv.prom. 3 no.2:35 F '61. (MIRA 14:4)  
(Leather)

USYCHENKO, T.A.; UMANSKIY, A.A.

Extensible metal clamps for leather stretching on frames. Kozh.-  
obuv.prom. 3 no.9:31-33 S '61. (MIRA 14:11)

1. Direktor Kiyevskogo kozhevennogo kombinata (for Usychenko).
2. Nachal'nik tekhnicheskogo otdela Kiyevskogo kozhevennogo kombinata  
(for Umanskiy).

(Leather industry--Equipment and supplies)

LITVINOV, M. R.; UMANSKIY, A. A.

Use of casein coating for refining chrome leather. Kozh.  
obuv. prom. 4 no.10:26-28 0 '62. (MIRA 15:10)

(Leather) (Casein)

IMANSKIY, A.A.

CO

4

Theory of chromium deposition from the chromic acid bath. A. Imanskii. *Ukrain. Khim. Zhur.* 9, 167-9 (1934). Cr plating can be represented by the reactions:  
 $2\text{CrO}_3 + 3\text{H}_2\text{SO}_4 + 3\text{H}_2 \rightarrow \text{Cr}_2(\text{SO}_4)_3 + 6\text{H}_2\text{O}$ ;  $\text{Cr}^{6+} \rightarrow \text{Cr}$ .  
 B. C. A.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION



UMANSKIY, A.A.  
SEMENOV, A.V., inzhener; UMANSKIY, A.A., inzhener.

Television in railroad operations. Avtom., telem. i sviaz' no.3:  
8-11 Mr '57. (MLRA 10:4)  
(Railroads--Communication systems) (Industrial television)

LEBEDEVA, Tat'yana Petrovna; UMANSKIY, Grigoriy Markovich; TSARENKO,  
A.P., red.; KHITROVA, N.A., ~~tekhn. red.~~

[Television at railroad stations] Televidenie na zhelezno-  
dorozhnykh stantsiyakh. Moskva, Gos.transp.zhel-dor.izd-vo,  
1960. 39 p. (MIRA 13:3)  
(Television) (Railroads--Electronic equipment)

DERBAREMDIKER, M.L.; UMANSKIY, A.A.

Rapid method for checking varnished cooking. Leg.prom. 18 no.7:52-53  
J1 '58. (MIRA 11:9)

(Varnish and varnishing)

UMANSKIY, A.G., inzh.

Traveling laboratory for the magnetographic inspection of welded joints. Stroi.truboprov. 6 no.10:26-27 0 '61. (MIRA 14:10)

1. Trest Ukgazneftestroy, Kiyev.  
(Magnetometer) (Pipe joints) (Welding—Testing)

UMANSKIY, A.M.; BOGATIN, D.Ye.; VLADIMIROVICH, A.G., red.; TORSHINA,  
Ye.A., tekhn. red.

[Production of powder metal products]Proizvodstvo izdelii meto-  
dom poroshkovo metallurgii. Moskva, TSentr. biuro tekhn. in-  
formatsii, 1961. 65 p.  
(MIRA 15:8)

1. Russia (1917- R.S.F.S.R.)Moskovskiy gorodskoy ekonomiches-  
skiy administrativnyy rayon. Sovet narodnogo khozyaystva.  
(Powder metallurgy)

S/137/62/000/001/067/237  
A060/A101

AUTHORS: Bogatin, D. Ye., Umanskiy, A. M.

TITLE: The use of muffle-less furnaces for the sintering of powder metallurgy articles

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 42, abstract 10323 ("Poroshk. metallurgiya", 1961, no. 3, 86-90, English summary).

TEXT: The authors describe the design of pusher-type furnaces for sintering with silit resistors and spirals from alloy 3N-595 (EI-595) with operating temperature 1,150°C. The furnace productivity is 12 - 30 kg/hr. The furnaces are lined with chamotte; one of the furnaces is a rocking one. A furnace for plasticizer elimination is also described.

R. Andriyevskiy

[Abstracter's note: Complete translation]

Card 1/1

VERNER, Ye.E., inzh.; UMANSKIY, A.M., inzh.; GUREVICH, B.D., inzh.

Use of powder metallurgy products in the manufacture of tractors.  
Trakt. i sel'khoz mash. 32 no.10:42-44 0 '62. (MIRA 15:9)

1. Vladimirskiy traktorny zavod (for Verner). 2. Moskovskiy  
eksperimental'nyy zavod (for Umanskiy, Gurevich).  
(Tractors) (Powder metallurgy)

UPANSKIY, A.M.

Experience in organizing proper feeding of school age children.  
A.M. Unanskii, I.A. Startseva, V.A. Shvaiko, G.M. Protsko,  
A.K. Zaporozhskaia, M.L. Mozhei. Vop. pit. 12 no. 1:85 Ja-F '53..



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735.921  
.124

UMANSKIY, ALEKSANDR PAVLOVICH

Schetnyy spravochnik po teplomekhanicheskomu oborudovaniyu elektricheskikh stantsiy (Estimates handbook for heat-powered equipment of electric power stations) Moskva, Gosenergoizdat, 1954.  
264 p. tables.

UMANSKIY, Aleksandr Pavlovich; NIKOLAYEV, S.A., redaktor; FRIDKIN, A.M.,  
tekhnicheskiiy redaktor; VINNITSKIY, D.Ya., redaktor.

[Estimate manual on equipping electric power stations with thermal  
equipment] Smetnyi spravochnik po teplomekhanicheskomu oborudovaniyu  
elektricheskikh stantsii. Pod red. D.IA.Vinnitskogo. Moskva, Gos.  
energ. izd-vo, 1954. 264 p. (MIRA 8:2)  
(Electric power plants--Estimates) (Heat engineering)

SLEZOV, P.M., inzhener

"Estimator's handbook on heat power equipment of electric power plants." A.P.Umanskiy. Reviewed by P.M.Slezov. Elek.sta.26  
no.10:64 0 55. (MLRA 8:12)  
(Engineering--Estimates and costs) (Umanskiy, Aleksandr Pavlovich)

UMANSKIY, A.P.

Archaeological monuments of the Chumysh Valley. Izv. Alt. otd.  
Geog. ob-va SSSR no.5:211-215 '65. (MIRA 18:12)

1. Barnaul'skiy pedagogicheskiy institut.

L 8993-66 EWT(1)/EWT(m)/EPF(n)-2/EWP(t)/EWP(b)/ENA(1) LJP(c) JD/WW/JW  
 ACC NR: AF5016693  
 SOURCE CODE: UR/0294/65/003/003/0381/0388 84  
 AUTHOR: Timrot, D. L.; Umanskiy, A. S. 44, 55  
 ORG: Scientific Research Institute of High Temperatures (Nauchno-issledovatel'skiy institut vysokikh temperatur)  
 TITLE: Investigation of the heat conductivity of helium in the 400°-2400°K temperature range  
 SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 3, 1965, 381-388  
 TOPIC TAGS: helium, temperature measurement, temperature transducer, heat conductivity 21, 44, 55  
 ABSTRACT: The heat conductivity of He in a range 400 to 2400°K is studied using the method of phase change in hot wires. Very small diameter wires are used to minimize the effect of surface radiation. The experimental tube, described in detail, has a specially designed geometry for minimizing the convection effects and eliminating the cooling effects at the ends of the wire. The measurement errors from various sources are discussed in detail. The wire temperature errors are estimated to be less than 4.6%. The errors in heat conductivity are more complex, requiring a comparison of results both with measurements of other authors and with theoretical values for all temperatures. At temperatures below 1200°K, published data is within the experimental errors, but at higher temperatures deviations of 12% occur. Orig. art. has: 4 figures, 10 formulas.  
 SUB CODE: 20/ SUBM DATE: 26Jun64/ ORIG REF: 003/ OTH REF: 007  
 Card 1/1 UDC: 536.23 : 546.291

UMANSKIY, A.S., inzh.

Economic aspects of assembling operations. Elek.sta. 28 no.12:64 D '57.

(Boilers)

(MIRA 12:3)

L 33670-66 EWT(1)/EWT(m)/I/EWP(t)/ETI IJP(c) JD/WW/JW/WE

ACC NR: AP6014079 SOURCE CODE: UR/0294/66/004/002/0289/0292

AUTHOR: Timrot, D. L.; Umanskiy, A. S. 76

ORG: \ High Temperature Scientific Research Institute (Nauchno-issledovatel'skiy institut vysokikh temperatur) 73 B

TITLE: Investigation of the heat conductivity of hydrogen and argon 27 27

SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 2, 1966, 289-292

TOPIC TAGS: hear conductivity, hydrogen, argon

ABSTRACT: The article gives the results of an experimental determination of the heat conductivity coefficients of hydrogen and argon up to a temperature of 2000°K. In the experiments the method used was a heated filament with a cold cylinder wall. The heat conductivity coefficient, referred to the temperature of the filament, was calculated by the formula

$$\lambda = \frac{\ln R_{st}/r_n}{2\pi} \frac{dW_{pr}}{dT_n},$$

where  $R_{st}$  and  $r_n$  are the diameters of the cylinder and the filament, respectively;  $T_n$  is the temperature of the filament;  $W_{pr}$  is the power

Card 1/2 UDC: 536.23

L 33670-66

ACC NR: AP6014079

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evolved by the filament due to heat conductivity, with a correction for the temperature jump. A comparison of the data of other authors with those of the present authors shows good agreement in the region from 800-1200°K. The limiting possible error of the data evaluated by the authors was 5% for hydrogen and 7% for argon. "In conclusion, we thank G. F. Sokol, V. V. Korolev, and I. L. Kostrovskov for their aid in carrying out the experiments." Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: 13Sep65/ ORIG REF: 005/ OTH REF: 009

Card 2/2 m c



UMANSKIY, B., prepodavatel' uchebno-trenirovochnogo otryada.

In the interests of passengers. Grazhd.av. 20 no.12:22-23 D '63.  
(MIRA 17:2)

UMANSKIY, B. (Rostov-na-Donu); OMETA, V. (Rostov-na-Donu)

In the position of a stepson. Grezhd. av. 22 no.6:13 Je '65.  
(MIRA 18:6)

UMANSKIY, B.M., inzh.

Assembly-line method of welding process piping in chemical enterprises. Mont. i spets. rab. v stroit. 26 no.8:5-8 Ag '64.  
(MIRA 17:11)

1. Proyektnaya kontora Proyektneftespetsmontazh.

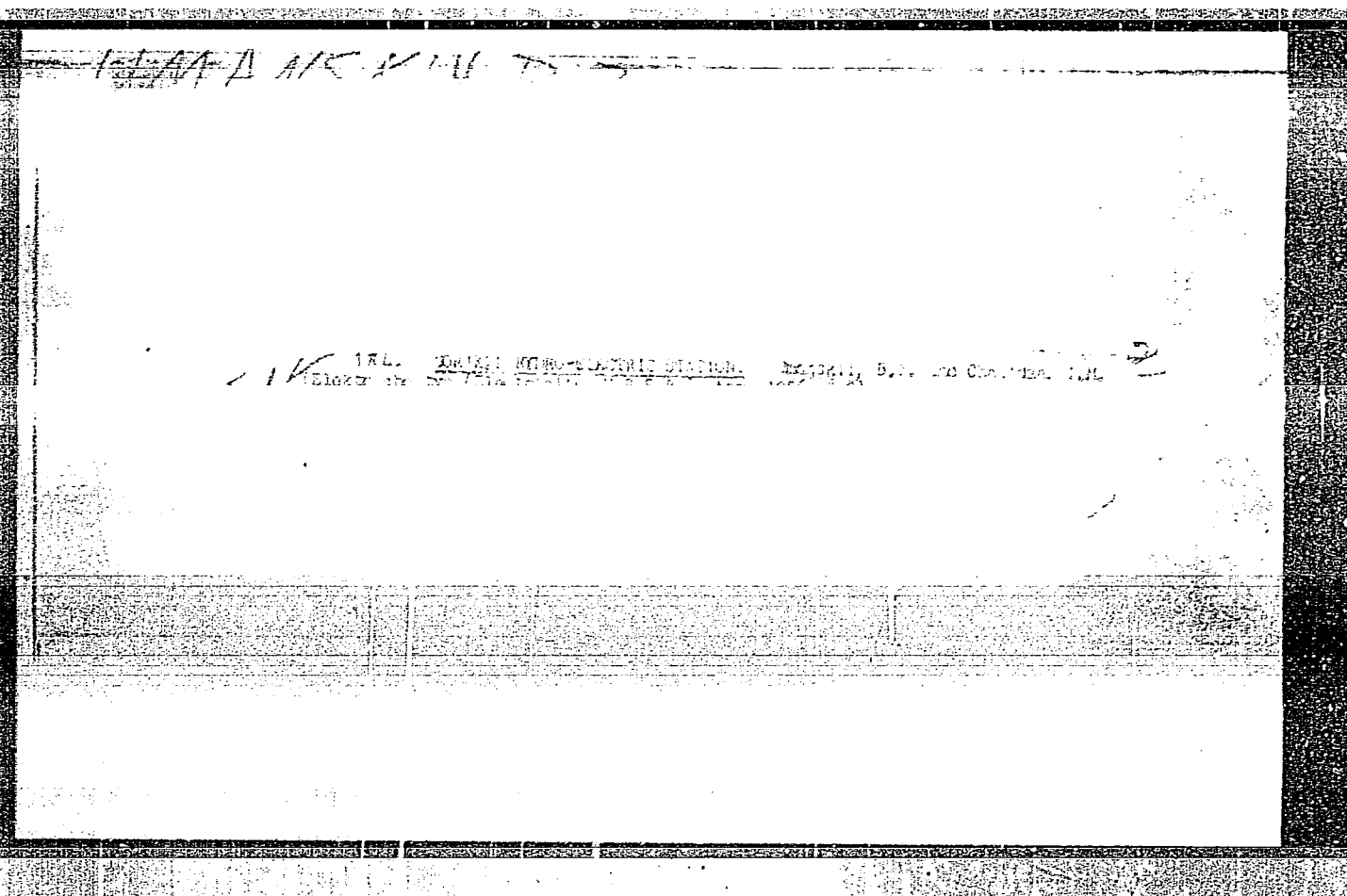
UMANSKIY, B.Z.

✓2886. THE BRATSK HYDROELECTRIC STATION. 621.311.21(57)  
I.M.Chalidze, B.Z.Umanskiy and K.A.Kudryavtsev.  
Elektrichestvo, 1959, No. 2, 5-8. In Russian.

The projected Bratsk hydro-electric power station on the river Angara will be the first of the Siberian super-power stations and the one forming the last cascade of the development of the river Angara. It will surpass Kuibyshev in installed power by a factor of 1.5 and in annual output by a factor of 2. Its purpose will be the supply of the industrial regions of Irkutsk, Cherekhov and Krasnoyarsk and of the electrified East-Siberian railways. The main details of the hydraulic and electric part of the project are outlined, with particular stress on the automatic control of the station and its planned substations supplying at 110, 220 and 400 kV. The power for the hydraulic engineering and erection work will be provided by the present Irkutsk power system through a 600 km long transmission line, now under erection. The Bratsk station should be taken into service in 1960.

B.F.Kraus





UMANSKIY, B.Z., inzhener; CHALIDZE, I.M., inzhener.

Gerkiy Hydreelectric Power Station. Elektrichestvo no.4:5-10 Ap '56.  
(MLRA 9:7)

1.Moskovskoye otdeleniye Gidreenergooproekta.  
(Gerkiy Hydreelectric Power Station)

**AUTHOR:** UMANSKIY, B.Z., FEDOTOV, N.I., and CHALIDZE, I.M., PA - 3096  
engineers.

**TITLE:** The Irkutsk Hydroelectric Station. (Irkutskaya gidroelektrostantsiya, Russian)

**PERIODICAL:** Elektrichestvo, 1957, Nr 5, pp 1 - 6 (U.S.S.R.)  
Received: 6 / 1957 Reviewed: 7 / 1957

**ABSTRACT:** In December 1956 the water power station of Irkutsk, the first of Angara-Cascade, began operation. Thus is the foundation laid for the energy system of Irkutsk-Cheremkhovo-Bratsk. After the planned beginning of operation of the power station of Bratsk in 1960 the entire system will be united with that of Krasnoyarsk-Kuznetsk-Novosibirsk to become one of the largest in the world. The general characteristics of the Irkutsk station are described. One feature of the plant is the lack of a concrete spillway. The combined length of the earth dams amounts to 2,5 km. The function of the spillway is carried out by the canals which are placed in the power station building and which lead the water down. They let the high water through. In connection with the raising of the Baikal Sea water level about one meter, a 100 km long new stretch of railroad was built. It is electrified. The main electrical set up is described and the history of its development since 1951 given. Then follow descriptions of schemes for special requirements and the description of the basic equipment. The installation disposes of 8 turbines with

Card 1/2



The Irkutsk Hydroelectric Station.

PA - 3096

turbine buckets and a runner diameter of 7,2 m, a useful drop of 26 m, and a practical output of 90 MW and 83,3 U/min speed of rotation. The generators of the power plant are three phase synchronous shield generators with vertical waves and an output of 82,8 MW each. The weight amounts to 1090 t, the length of undulation 8,5 m, the rotative moment 39.000 t.qm. The main transformers are taken from the first delivery of the Soviet electroindustry. In the last chapter a survey of the general plan is given.  
(3 illustrations)

ASSOCIATION: Moscow Department of the Hydroenergetic Project.  
PRESENTED BY:  
SUBMITTED: 18.2.1957  
AVAILABLE: Library of Congress

Card 2/2

UMANSKIY, Boris Zinov'yevich; POKH, Il'ya Yefimovich; KHEYFITS, M.E.,  
inzh., red.; LARIONOV, G.Ye., tekhn. red.

[Electric power supply for the construction of large hydro-  
electric power plants] Elektrosnabzhenie stroitel'stva krup-  
nykh gidroelektrostantsii. Pod red. M.E.Kheifitsa. Moskva,  
Gos. energ. izd-vo, 1961. 271 p. (MIRA 14:9)

(Hydroelectric power stations—Design and construction)  
(Electric power distribution)

UMANSKIY, B.Z., inzh.

Classification of current consuming points in hydraulic construction  
according to the degree of reliability. Gidr.stroi. 32 no.4850-51  
Ap '62. (MIRA 1534)

(Electric power distribution)  
(Hydroelectric power stations--Safety measures)

UMANSKIY, B.Z., inzh.

Special self-starting features of the electric motors of oil pressure  
maintaining systems in hydroelectric power stations. Elek.sta.33 no.1:  
34-36 Ja '62. (MIRA 15:3)  
(Hydroelectric power stations—Equipment and supplies)

SAKOV, A.D., inzh.; UMANSKIY, B.Z., inzh.; FEDOTOV, N.I., inzh.

The Bratsk Hydroelectric Power Station. Elek. sta. 34  
no.1:7-13 Ja '63. (MIRA 16:2)  
(Bratsk Hydroelectric Power Station)

LISOVSKIY, Grigoriy Semenovich; UMANSKIY, Boris Zinov'yevich;  
USPENSKIY, Boris Sergeyevich; KHEYFITS, Mikhail  
Emmanuilovich; SHUMILOVSKAYA, I.P., red.

[Electrical section of hydroelectric power stations;  
principal schematics of electrical connections]  
Elektricheskaya chast' gidroelektrostantsii; glavnye  
skhemy elektricheskikh soedinenii. Moskva, Energiya,  
1965. 367 p. (MIRA 18:7)

L 13440-66 EMT(1) IJP(c) GG

ACC NR: AP002454

SOURCE CODE: UR/0057/65/035/012/2245/2248

AUTHOR: Umanskiy, D.M.

ORG: Physics and Power Engineering Departments, Khar'khov Engineering-Economics  
Institute (Kafedra fiziki i energetiki Khar'kovskogo inzhenerno-ekonomicheskogo  
instituta)21,44,55 21,44,55  
TITLE: Influence of a magnetic field on the dielectric constant of tap water

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 12, 1965, 2245-2248

TOPIC TAGS: water, dielectric constant, magnetic field, negative ion, positive ion,  
flow velocity,

ABSTRACT: The dielectric constants of stagnant and flowing distilled and tap water were measured in magnetic fields up to 2 kOe at an unspecified radio frequency by the Drude-Coolidge technique, using a Lecher wire system short circuited by a capacitor filled with the investigated water. The stagnant tap and distilled water and the flowing distilled water gave very similar results; as a function of the magnetic field strength the dielectric constant reached a flat maximum of perhaps 160 at a field strength of 1.3 kOe and decreased with further increase of the magnetic field strength. The dielectric constant of the flowing (50 cm/sec) tap water, on the other hand, showed a very sharp maximum at 1.5 kOe, where the dielectric constant reached 340.

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UDC: 537.226.1

2

L 13440-66

ACC NR: AP6002454

This behavior is ascribed to formation of associations of positive and negative impurity ions owing to their motions in opposite directions under the influence of the Lorentz forces. Ion associations of moderate size have appreciable electric dipole moments and thus contribute significantly to the dielectric constant. The ion associations formed at high magnetic field strengths are larger than those formed in moderate fields and have smaller dipole moments, thus accounting for the decrease of dielectric constant with increasing magnetic field strength at high field strengths. Measurements at different flow rates and different frequencies are not reported. The dielectric constant of tap water that had been exposed to a magnetic field gradually decreased after the field was removed and nearly recovered its original value after one day. Orig. artl has: 2 formulas and 2 figures.

SUB CODE: 20

SUBM DATE: 02Nov65

ORIG. REF: 004

OTH REF: 000

Card 2/2



UMANSKIY. E.S.

Strength regularities of soft, fiber-reinforced plastics on a two-component warp. Porosh.met. 4 no.5:22-34 S-O '64.

(MIRA 18:10)

1. Kiyevskiy politekhnicheskij institut.

UMANSKIY, E.S.

Bending of disks with hyperbolic profiles subjected to contour  
loads having cyclic symmetry. Sbor. trud. Inst. stroi. mekh..  
AN URSR no.15:15-28 '51. (MIRA 11:4)

(Elastic plates and shells)

124-57-1-1230

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 168 (USSR)

AUTHORS: Vaynberg, D.V., Popkov, V.G., Umanskiy, E.S.

TITLE: Calculation of the Forces and Deformations in the Body of Tooth Gears With Arms (Raschet usiliy i deformatsiy v korpuse zubchatykh koles so spitsami)

PERIODICAL: Sb. tr. In-ta stroit. mekhan. AN UkrSSR, 1955, Nr 20, pp 5-38

ABSTRACT: The stressed state of the body of a tooth gear equipped with arms is determined. The gear is examined as a cyclically symmetrical multicontour frame. The following assumptions are made: 1) The rim of the wheel has a constant cross section and is considered as a beam with small curvature; 2) The axis of the rim, the axes of all arms, and the external loads all lie in a single plane; 3) All arms are alike and are rigidly fixed in the rim and in an absolutely rigid hub. A numerical example is given of the calculation of the body of a gear for the reduction gear of a shaft elevator; the derivation of calculation formulas is given.

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1. Gears--Design 2. Gears--Stresses  
--Mathematical analysis

Yu.P.Grigor'yev

124-57-1-1229

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 168 (USSR)

AUTHORS: Vaynberg, D.V., Popkov, V.G., Umanskiy, E.S.

TITLE: Initial Stresses in Composite Wheels (Nachal'nyye napryazheniya v sostavnykh kolesakh)

PERIODICAL: Sb. tr. In-ta stroit. mekhan. AN UkrSSR, 1955, Nr 20, pp 73-95

ABSTRACT: An approximate method for the determination of the stresses arising from the assembly of composite wheels equipped with spokes. For wheels having a sectional hub the forces exerted by the fit of the tire onto the center of the wheel and the forces resulting from the fit of the fastening rings onto the hub are determined. The formulas obtained are employed also for the calculation of the initial stresses in wheels with a solid hub. A numerical example is adduced showing the stresses in the body of a composite wheel with a cast-iron center, a steel tire, and six spokes.

1. Wheels--Stresses--Mathematical analysis

Yu.P.Grigor'yev

Card 1/1

SOV/124-57-7-8332

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 135 (USSR)

AUTHOR: Umanskiy, E. S.

TITLE: Concerning One Approximate Method for Determining a Eulerian Load  
(Ob odnom priblizhennom sposobe opredeleniya eylerovoy nagruzki)

PERIODICAL: Izv. Kiyevsk. politekhn. in-ta, 1956, Vol 19, pp 303-315

ABSTRACT: The approximate method for the solving of differential equations proposed by Yu. D. Sokolov (RZhMekh, 1954, abstract 1678) is applied to the problem of the in-plane bending behavior of constant-stiffness and variable-stiffness rectangular beams. In the second term of the differential equation for determining the angle of twist

$$B_1 C \frac{d^2 \beta}{dz^2} + M_x \beta \quad (1)$$

the function  $\beta$  is assumed to equal the constant  $a_1$ . This constant  $a_1$  is defined as the mean value for the range of values from 0 to  $l$  of the approximate function  $\beta_1$  ( $l$  being the length of the beam). The approximate function  $\beta_1$  is determined from the equation

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SOV/124-57-7-8332

Concerning One Approximate Method for Determining a Eulerian Load

$$\frac{d^2 \beta_1}{dz^2} = - \frac{M_x a_1}{B_1 C} \quad (2)$$

The critical-load value in the expression for the bending moment  $M_x$  is found by solving equation (2); for this purpose the value found for  $a_1$  is introduced into the solution obtained, and account is taken of the mode of beam constraint. To obtain the successive approximations, the function  $\beta$  in the second term of equation (1) is assumed to equal  $\beta_{n-1} + a_n$ , wherein the constant  $a_n$  equals the mean value of the function  $\beta_n - \beta_{n-1}$  for the interval  $(0, l)$ . The approximate critical-load values obtained by this method for several specific cases are compared with the corresponding values obtained from the precise solutions; in the first approximation there is a discrepancy of up to 13.5%, in the second - of up to 3.5%. Bibliography: 3 references.

V. F. Lukovnikov

Card 2/2

SOV/124-58-8-9051

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 106 (USSR)

AUTHORS: Kvitka, A.L., Agarev, V.A., Umanskiy, E.S.

TITLE: Using an Electrical-analog Method to Solve the Axisymmetrical Problem of the Theory of Elasticity in a Case Where Influences are Being Exerted by Centrifugal Forces and Temperature Fields (K resheniyu osesimmetrichnoy zadachi teorii uprugosti metodom elektromodelirovaniya v sluchaye deystviya tsentro-bezhnykh sil i temperaturnykh poley)

PERIODICAL: Izv. Kiyevsk. politekhn. in-ta, 1956, Vol 19, pp 455-461

ABSTRACT: To solve the axisymmetrical problem of the theory of elasticity the authors propose an electrical-analog method based on an analogy existing between the differential equations which describe, respectively, the deformation of an elastic body and the distribution of the potential in the corresponding electrical analog. The method is designed to permit study of the stress distribution in an elastic body (having the form of a body of revolution) subjected to axisymmetric surface stresses and body stresses (i.e., centrifugal forces) and being unevenly heated, the latter circumstance giving rise to an axisymmetric

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SOV/124-58-8-9051

Using an Electrical-analog Method (cont.)

temperature field. When only the surface stresses are operative, i.e., when the problem can be adequately described by homogeneous differential equations, the stresses present are determined as functions of the two stress functions  $\Phi$  and  $\Omega$  which satisfy the system of differential equations

$$\nabla_1^2 \Omega = 0, \quad \nabla_1^2 \Phi = \frac{\partial^2 \Omega}{\partial z^2}$$

wherein

$$\nabla_1^2 = \frac{\partial^2}{\partial r^2} - \frac{1}{r} \frac{\partial}{\partial r} + \frac{\partial^2}{\partial z^2}$$

In the general case, the expressions for the stresses contain the two functions  $\Phi$  and  $\Omega$  as well as special solutions for the respective inhomogeneous equations describing the influence of the centrifugal forces and the effect of the uneven heating. The differential-equation system based on the functions  $\Phi$  and  $\Omega$  is set up in terms of finite differences and is solved on an electric network integrator having three resistance networks which simulate the region of the elastic body under investigation. The potentials

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SOV/124-58-8-9051

Using an Electrical-analog Method (cont.)

encountered at the junction points of the first network correspond to the values of the function  $\Omega$ , those at the junction points of the second network to the values of  $\partial^2 \Omega / \partial z^2$ , those at the junction points of the third network to the values of the function  $\Phi$ . In addition, all the interior junction points of the second network are linked through source resistances to the corresponding junction points of the third network. The boundary conditions for the functions  $\Phi$  and  $\Omega$  are fulfilled by the method of successive approximations. The authors include no estimate of the error inherent in their method, and they give no example of the method's application to a specific case.

A.D. Kovalenko

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UMANSKIY, E. S.

18(0.7)

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Andriyenko nauk Ukrainy SSR. Institut metallotekhnicheskoy i spetsial'noy splavov

Voprosy poroshkovoy metallurgii i prochnosti materialov. 1970. 5 (Problems in Powder Metallurgy and Strength of Materials. No. 5) Kiev, Izdat. M. USSR, 1970. 172p. 2,000 copies printed.

Ed. of Publishing House: Ye. A. Gashchinsky, Tech. Ed.: V. Ye. Shchegolev; Editorial Board: I. M. Prutisovich (Resp. Ed.), I. M. Pedorchenko, G. S. Platenko, G. V. Samonov, and V. A. Gritsenko.

PURPOSE: This collection of articles is intended for a wide circle of scientists and engineers in the research and production of powder metallurgy. It may also be useful to advanced students of metallurgical institutes.

CONTENTS: This collection describes the results of investigations made in the units of metallurgical special Al-splavov, M. USSR (Institute of Powder Metallurgy and Special Al-splavov, Academy of Sciences, Ukrainian SSR). The physical and chemical properties of materials used in powder metallurgy are discussed. The methods of mechanical testing are described. No personalities are mentioned. References follow each article.

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SOV/21-58-11-4/28

AUTHORS: Umanskiy, E.S., Kvitka, A.L. and Agarev, Y.A.

TITLE: A Method of Initial Functions in the Axisymmetric Problem of the Theory of Elasticity (Metod nachal'nykh funktsiy v osesimmetrichnoy zadache teorii uprugosti)

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1958, Nr 11, pp 1167-1171 (USSR)

ABSTRACT: The authors present the statical and physical equations of the axisymmetric problem, expressed through the four initial functions, in two variants: the first of them is used in cases when boundary conditions on a surface  $r = f(z)$  (in particular for a cylinder  $r = \text{const}$ ) should be satisfied; the second variant is applied for the rigorous observance of conditions on the planes  $z = \text{const}$ . Making use of the V.Z. Vlasov [Ref 1] method, the authors give a general solution of the axisymmetric problem of the theory of elasticity with taking into consideration some inertial and temperature effects. The solution of some particular problems is reduced to the integration of ordinary differential

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A Method of Initial Functions in the Axisymmetric Problem of the Theory of Elasticity

equations. If one or another order of this equation is chosen, the approximate solution of the problem is obtained. This method is also extended to the problem of torsion of a solid of revolution. There are 2 Soviet references.

ASSOCIATION: Kiyevskiy politekhnicheskii institut (Kiyev Polytechnical Institute)

PRESENTED: By Member of the AS UkrSSR, G.N. Savin

SUBMITTED: May 8, 1958

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

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UMANSKIY, E.S., kand.tekhn.nauk, dotsent; LANDA, I.M., inzh.; RUSAKOVICH,  
L.I., inzh.

Investigating the strength of artificial leather with a fibrous  
base. Izv.vys.ucheb.zav.; tekhn.prom. no.3:40-49 '60.  
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1. Kiyevskiy Ordena Lenina politekhnicheskii institut (for  
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& Rusakovich).

(Leather, Artificial)

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L.I., inzh.

Investigating the strength of artificial leather made from fibers.  
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- Rekomendovana kafedroy soprotivleniya materialov Kiyevskogo  
politekhnicheskogo instituta.  
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Testing the strength of artificial leather with a fiber base.  
Report No.3: Strength and deformability of artificial leather  
with a blend cotton base. Izv.vys.ucheb.zav.; tekhn.prom. (MIRA 14:7)  
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cheskiy institut (for Umanskiy). 3. Kiyevskiy regeneratno-  
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